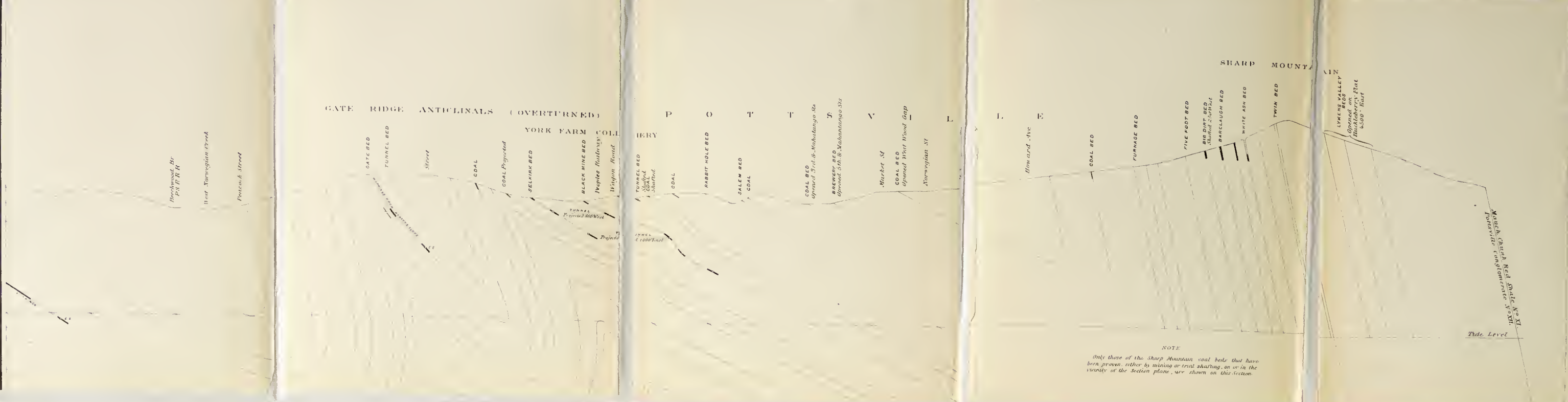




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VORHEES SLOPE, (P & R. C & L. CO.) AND YORK FARM (L. V. C. CO.) COL

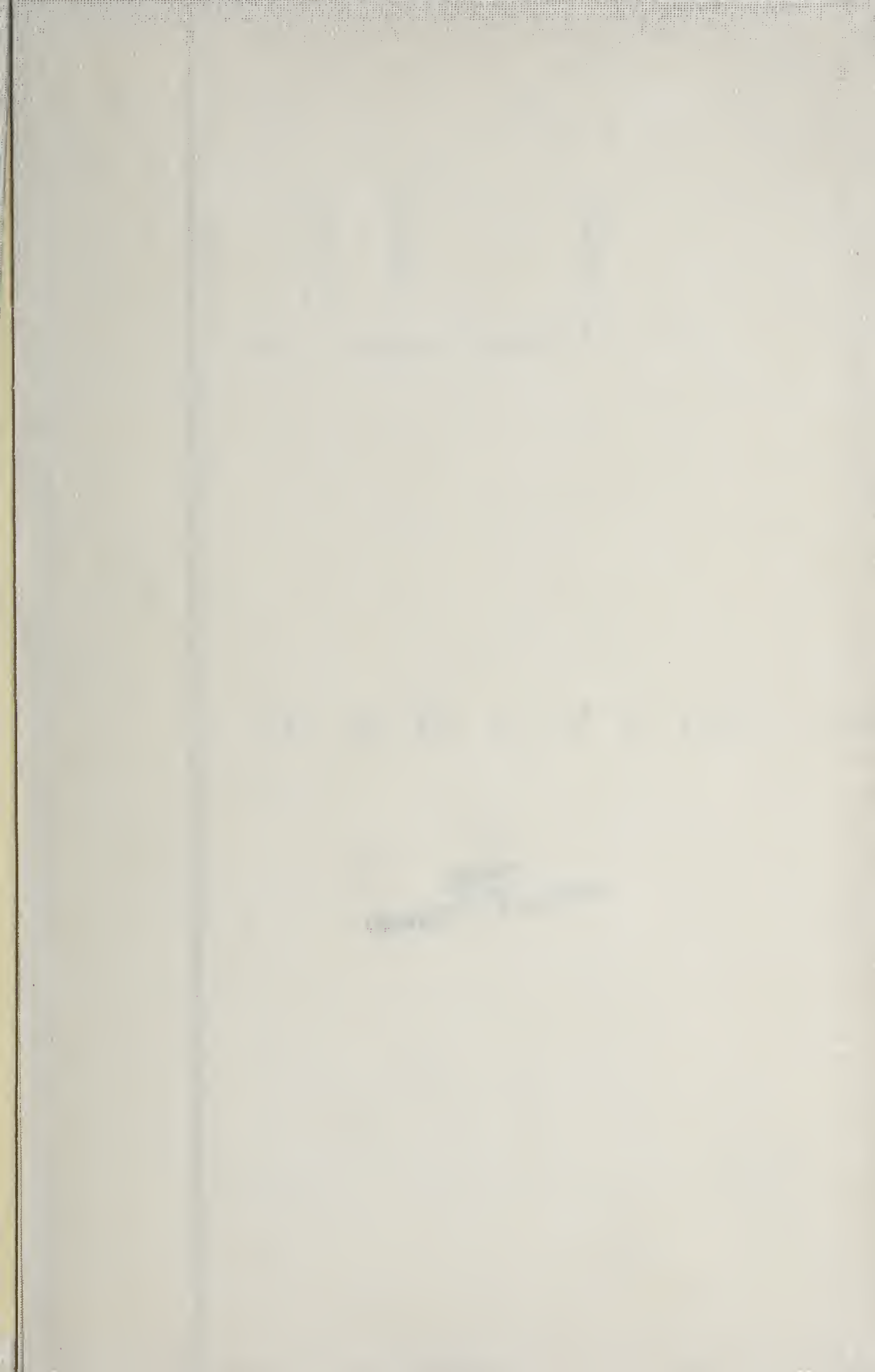


LEWIS AND FOGARTY (P. & R. C. & L. CO.) CO. LLIERIES.

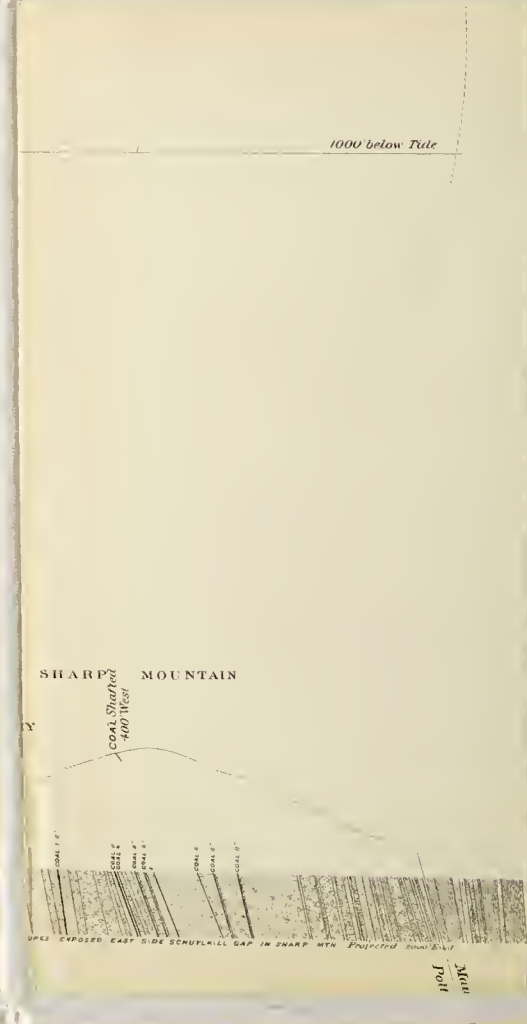
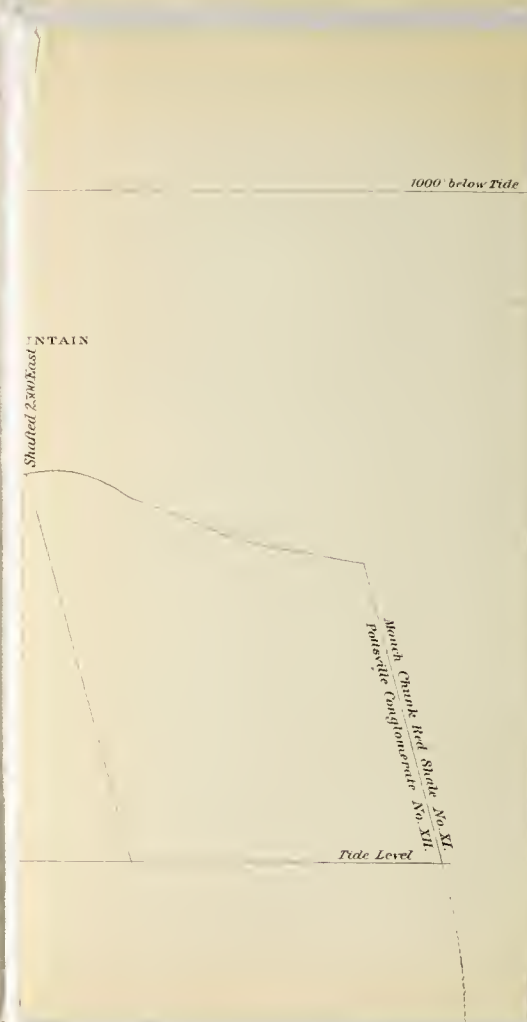
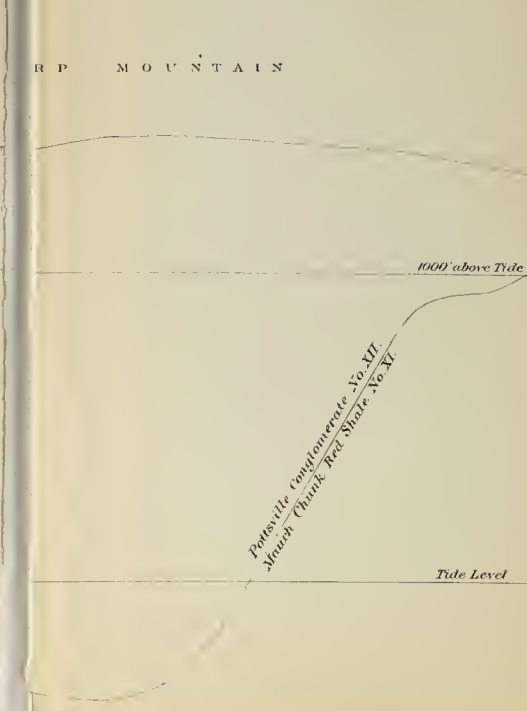


AND L. (P & R. C & L. CO.) AND BLACK MINE (ALBRIGHT ESTATE) COLLIERIES.





← ~~400~~ Bearing N. 47° W.



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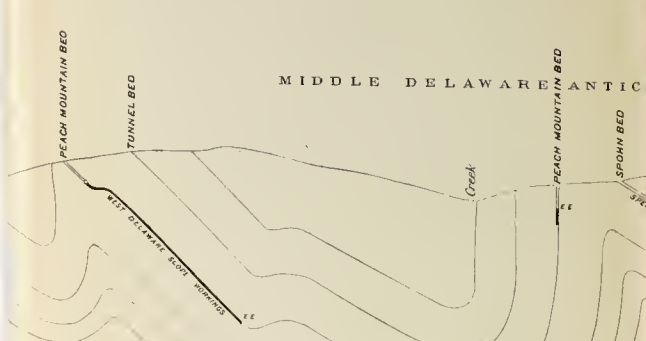
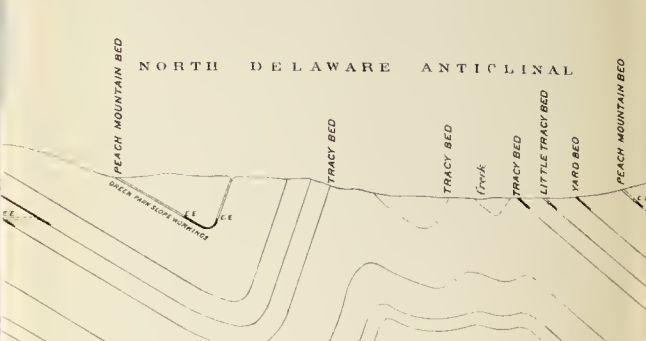
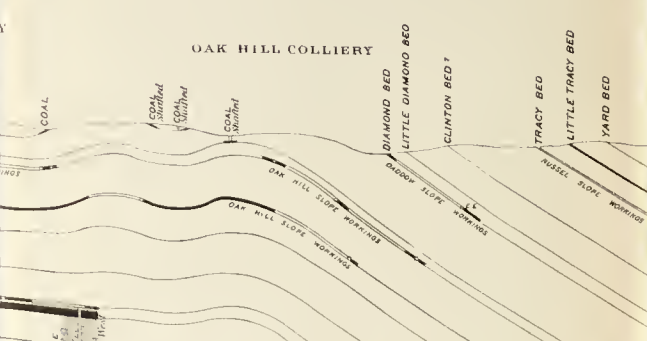
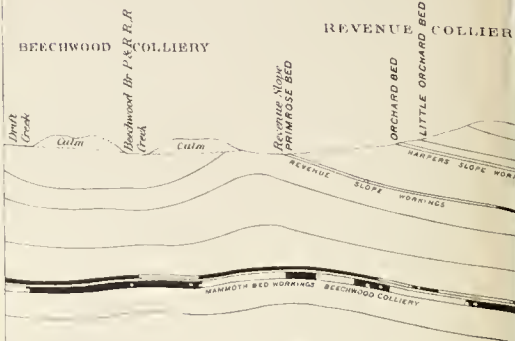
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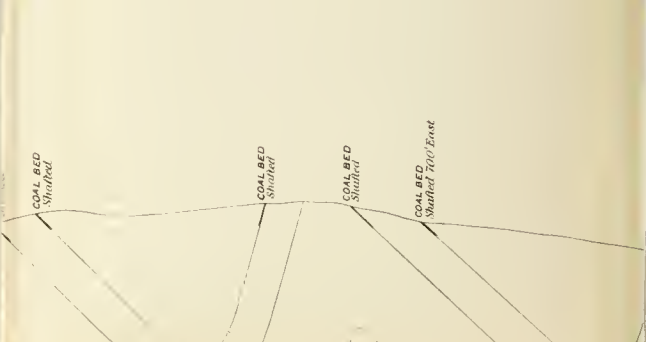
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EAST PINE KNOT, BEECHWOOD, REVENUE, OAK

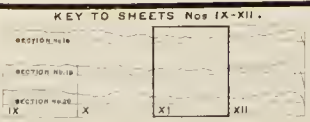
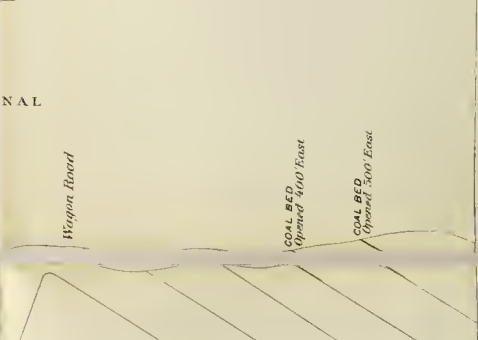
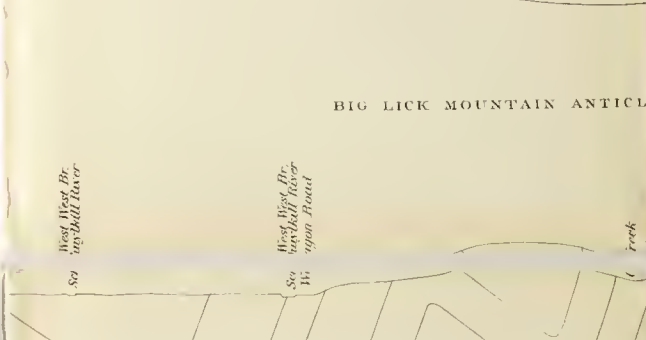
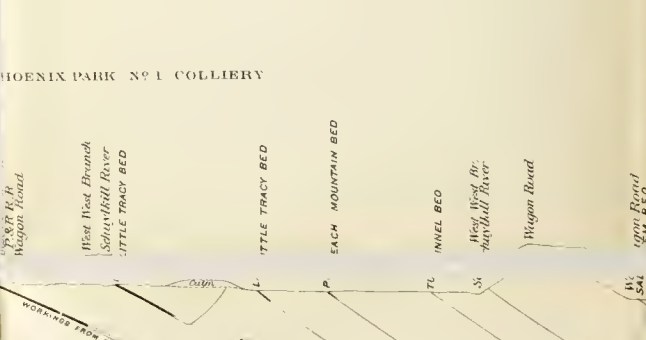
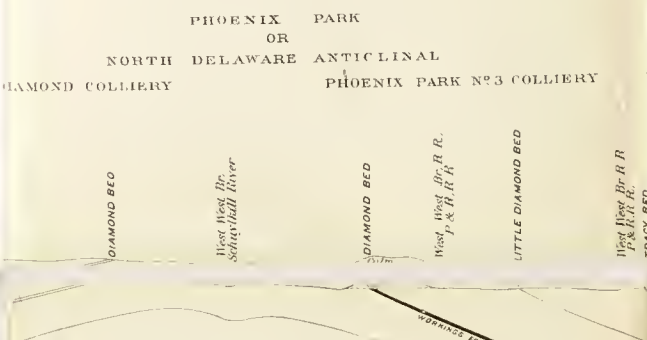
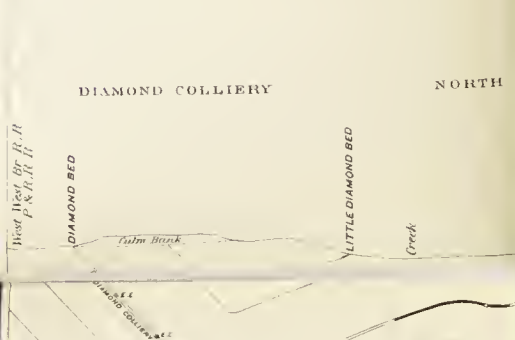
HILL SLOPE, WEST DELAWARE SLOPE, SPENCER AND MILNES SLOPE.



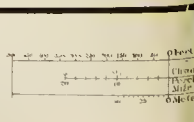
MINE WORKINGS OF ANCHOR, THOMASTON, (P. & R. C. & I. CO.) HERBINE, (J. K. SIGFRIED) RED ASH, (ABANDONED.)



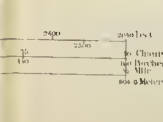
WORKINGS OF RICHARDSON, OAKDALE, THOMASTON, FORESTVILLE, DIAMOND, NORTH DIAMOND, PHOENIX PARK Nos. 2, 3.



J. P. LESTER, STATE GEOLOGIST



MAY 1891.



JULIUS BIEN & CO. LITH.

REFERENCE SURVEY MAPS AND SECTIONS
MINE SHEETS Nos. VI-XV.
ATLAS AA PART II
COLUMBIAN SECTION SHEETS IV-X
ATLAS AA PART IV.

THE SOUTH AFRICAN BUREAU OF INFORMATION

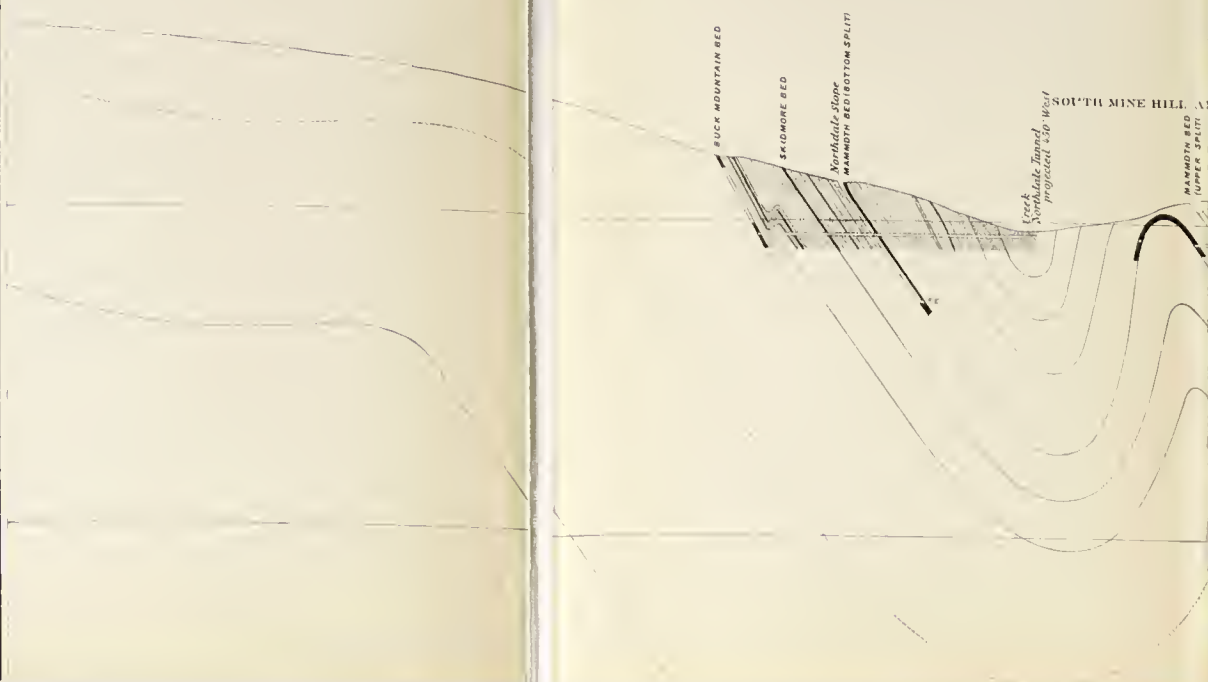
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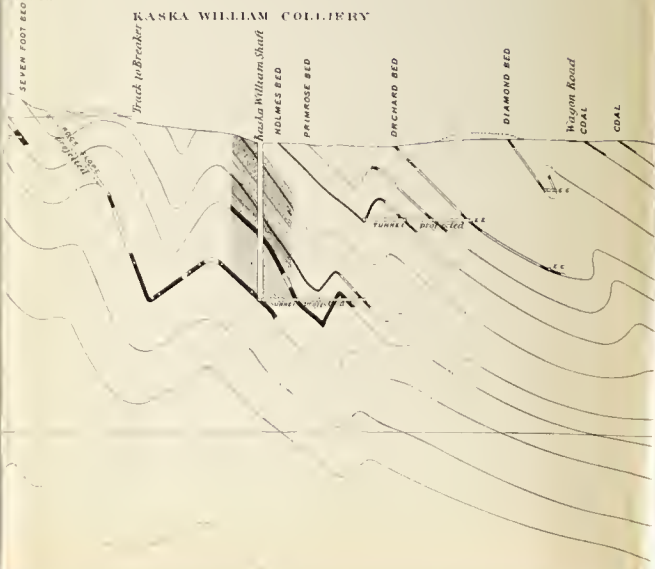
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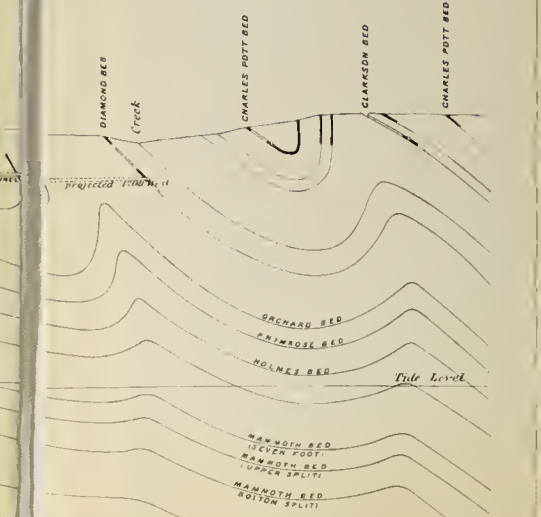
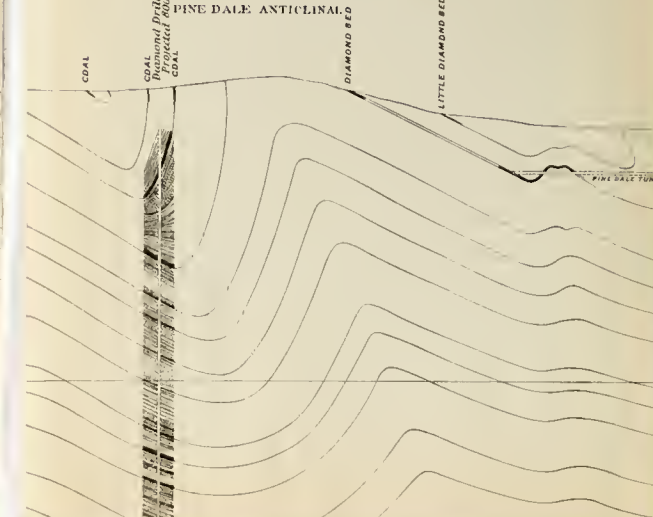
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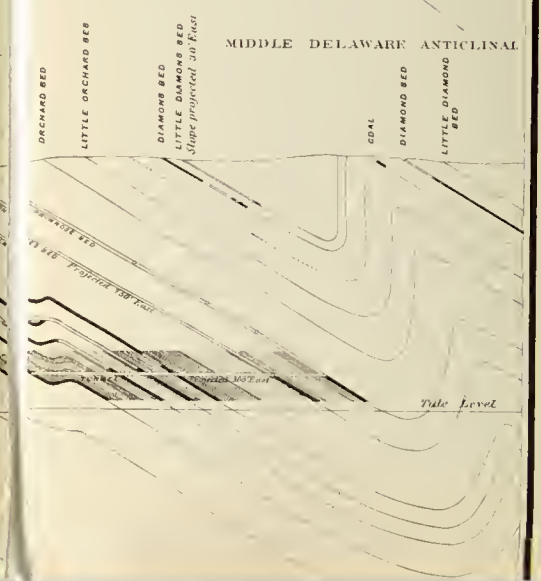
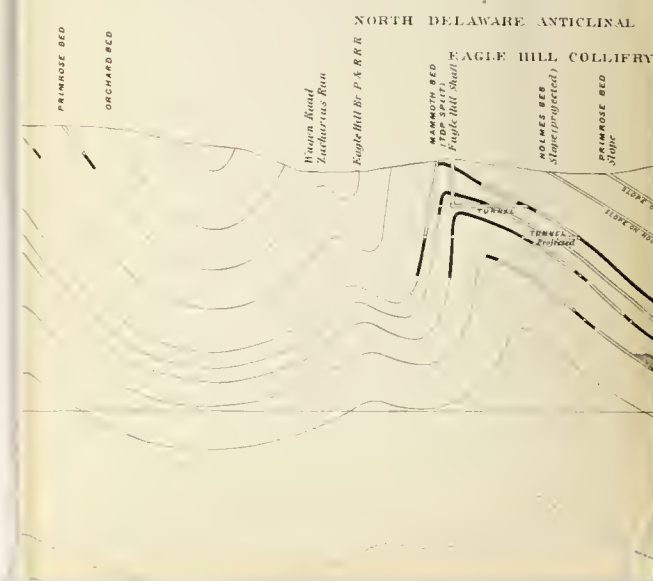
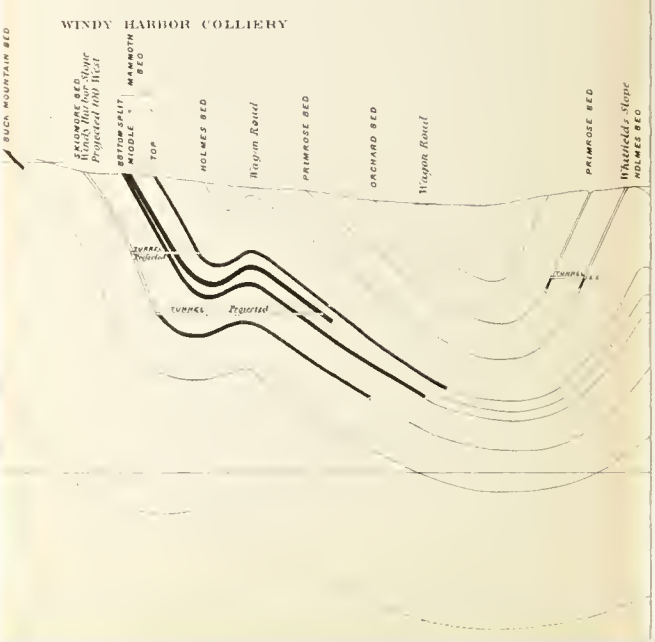


PINE DALE COLLIERY

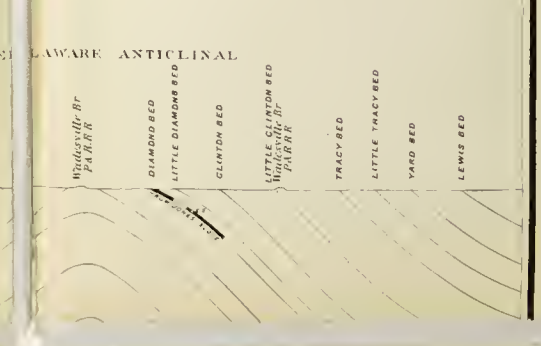
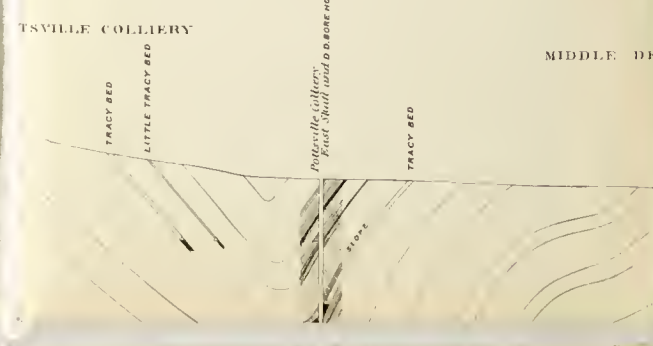
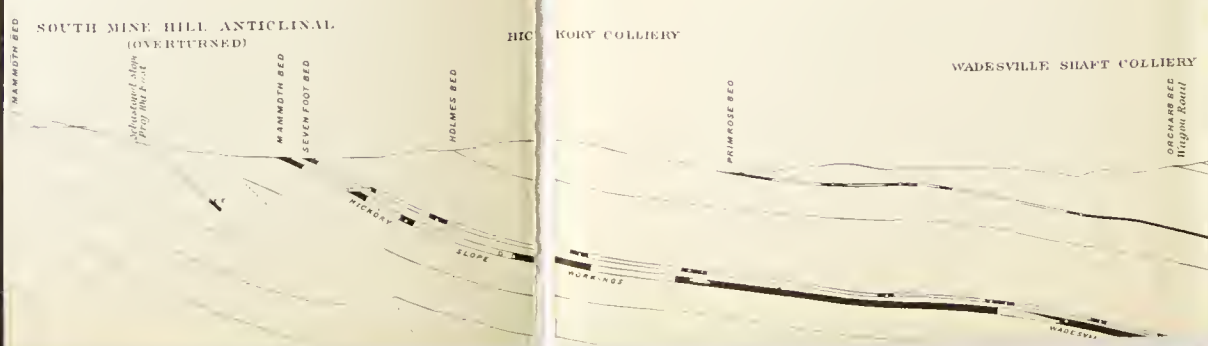


R. C. & I. CO.) AND BEAR RIDGE (ALLIANCE COAL

← — Bearing N. 24° 20' W.



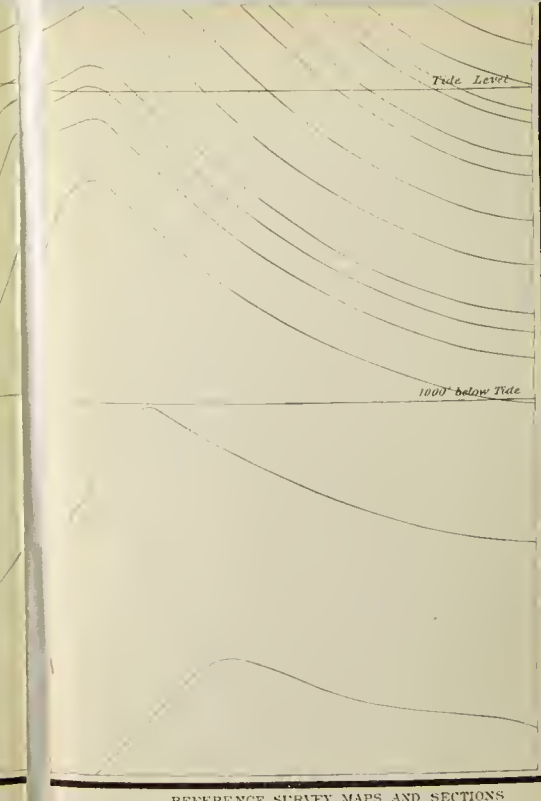
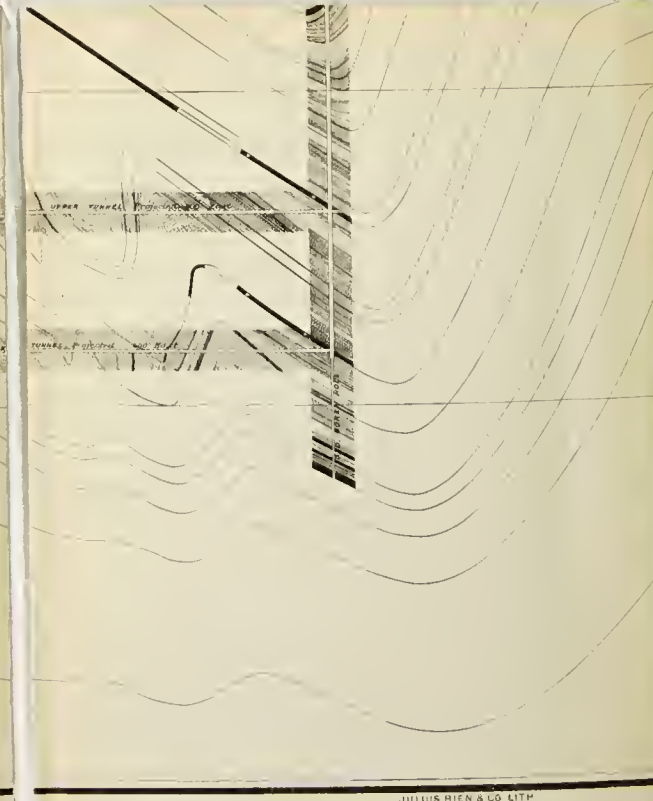
~~to~~ Bearing N. 18° 15' W.



Notes

- 1 The character of the strata has only been discussed in these two beds and has been qualified, far more definite information regarding the beds and of the strata between them, reference must be made to 2
- 2 The positions of the coal beds are only known with any certainty from two or three localities. In the latter case the coal has not been taken, the section plane indicates it. Where the coal is light blue their positions are only approximately known
- 3 The letters E & C (Elevation Estimated) occurring on a stratigraphic information the direction of the gangway, tunnel indicated, has necessarily been estimated
- 4 The sections on this sheet have been constructed from the surface to the main workings of the operating companies named in the title and from data made by the Geological Survey
- 5 For the geographical location of these S. sheets, see also

shows where the sections have been made and the character of the rock. The Columnar Section sheets are where they are indicated on the map. Generally, the work has been done out of the rock and is represented by a single column. This signifies that for lack of slope or dust at the point of the underground survey or the work of the individual sections. See map on Sheet No. 1.



REFERENCE SPIRIT MAPS AND SECTIONS

SOUTHERN COAL FIELD)	{	MINE SHEETS Nos. IV-XV.
		ATLAS AA PART II
		COLUMNAR SECTION SHEETS IV-XI
		ATLAS AA PART IV.

MAY 1891.

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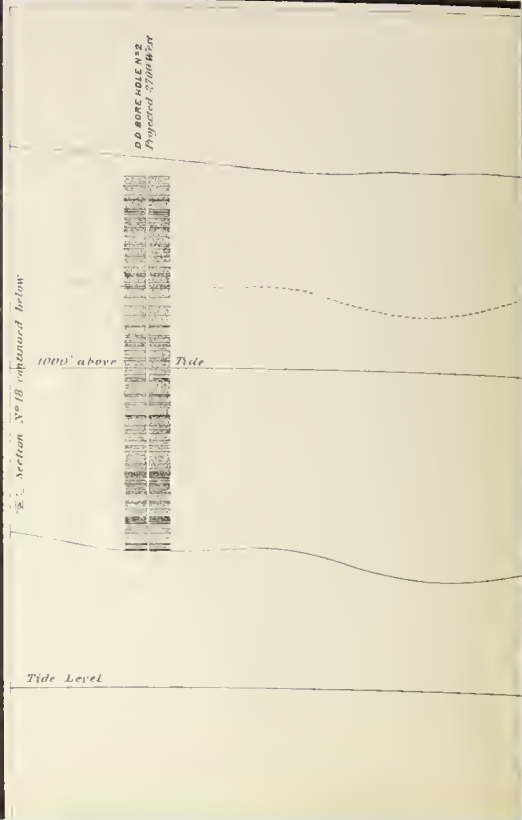
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SECTION No. 18,

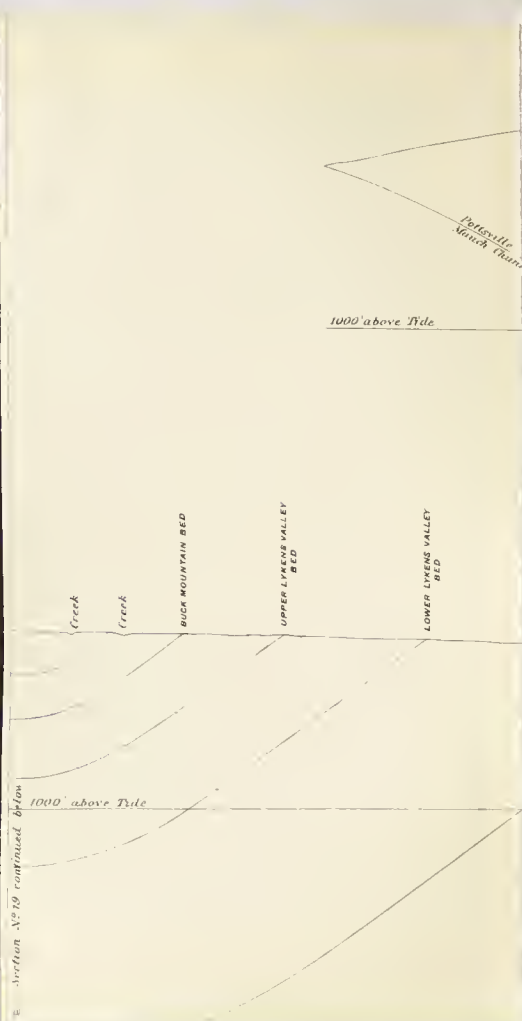
ON MINE SHEETS Nos. VII, XI AND XIV; ACROSS THE

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BASINS OF BROAD



North End of Section No. 18



BROAD MOUNTAIN ANTICLINE

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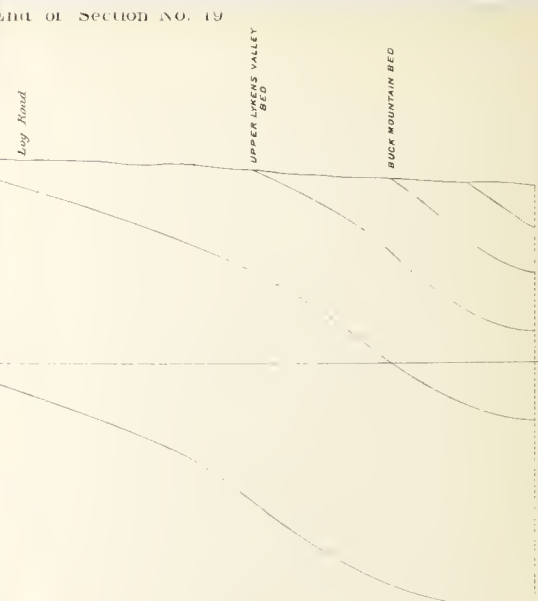
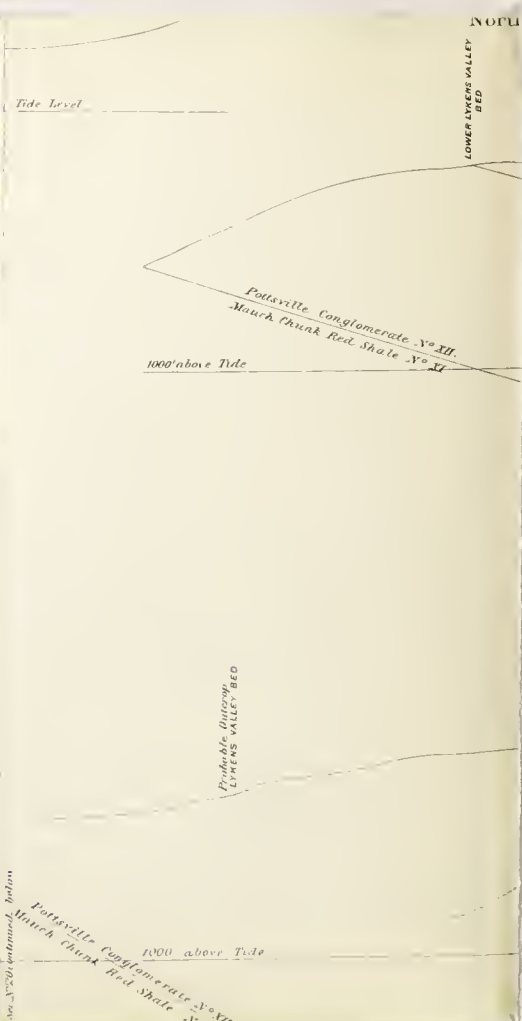
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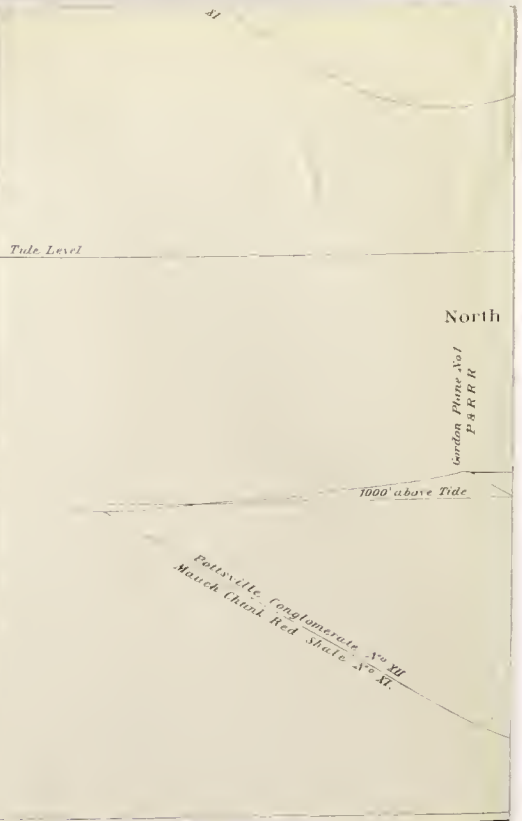


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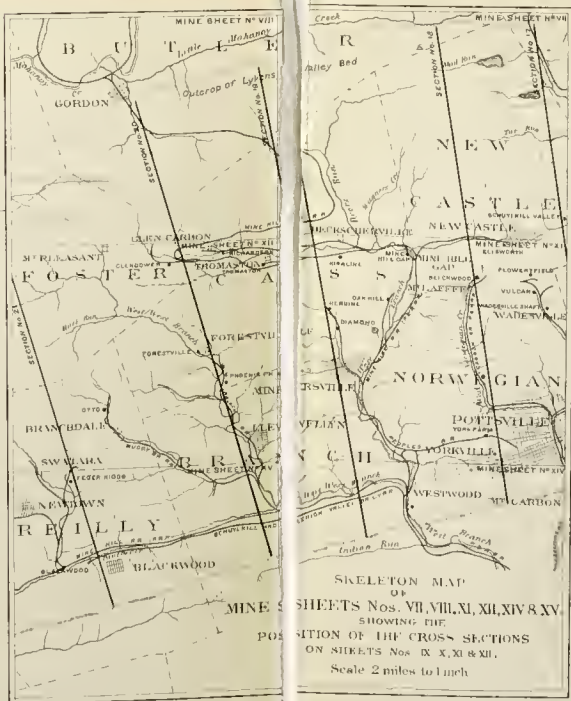
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North End of Section No. 20

BROAD MOUNTAIN ANTICLINE



Scale 400 feet to 1 inch

MAY 1891.

REFERENCE SURVEY MAPS AND SECTIONS
MINE SHEETS Nos. VII-XV
ATLAS AA PART II
COLUMBIAN SECTION SHEETS IV-VI
ATLAS AA PART IV

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AT URBANA-CHAMPAIGN

MOUNTAIN, HECKSCH

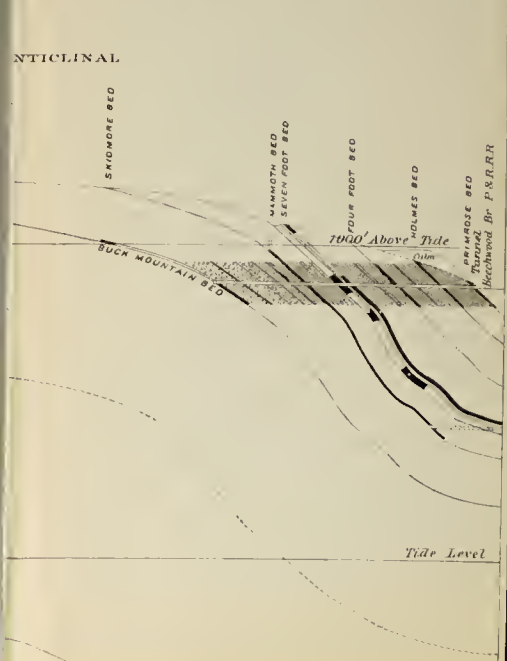
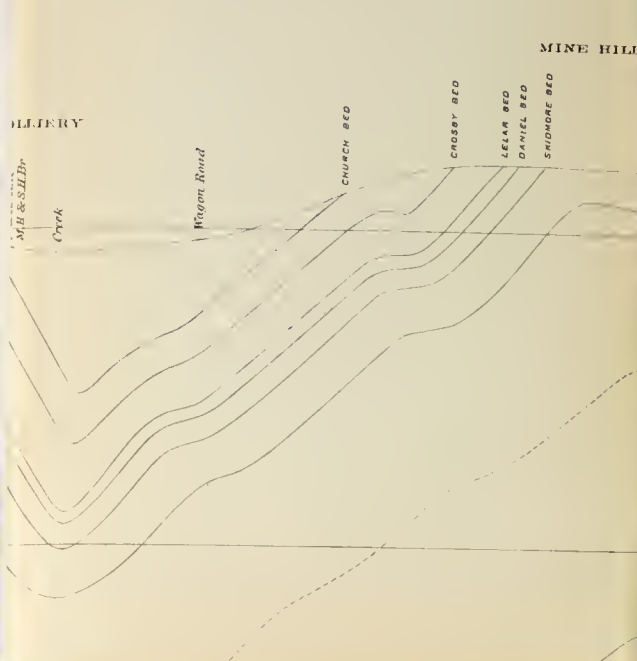
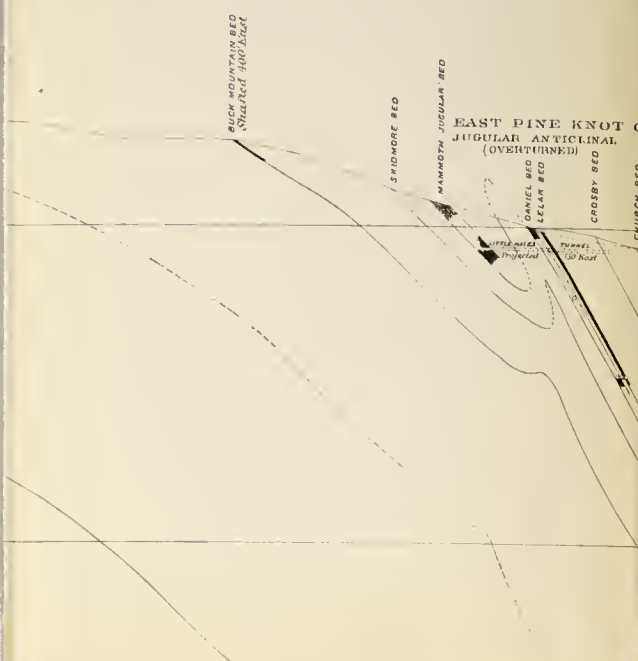
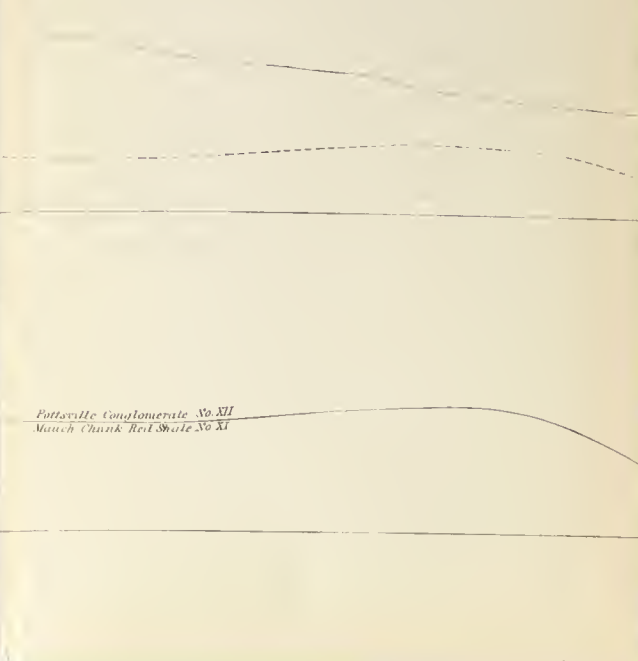
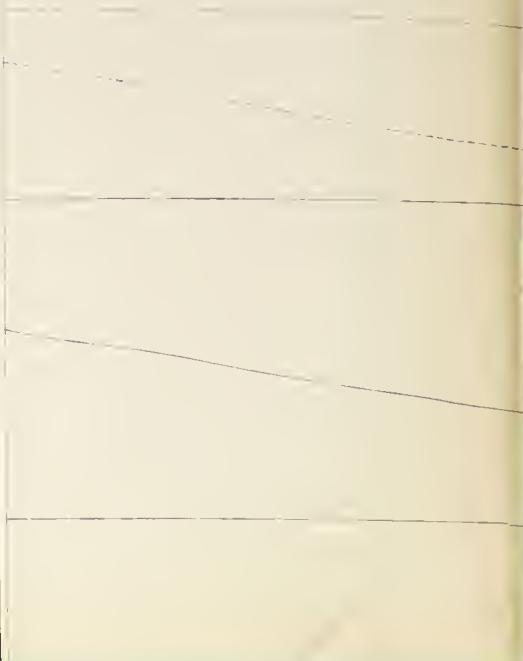
ERVILLE VALLEY, WEST

NORWEGIAN VALLEY AND

POTTSTVILLE, THROUGH THE

MINE WORKINGS OF

Bearing N. 19° 30' W.



ACROSS THE BASIN S OF BROAD MOUNTAIN, HECKSCHERVILLE VALLEY, WOLF CREEK AND WEST BRANCH, THROUGH THE

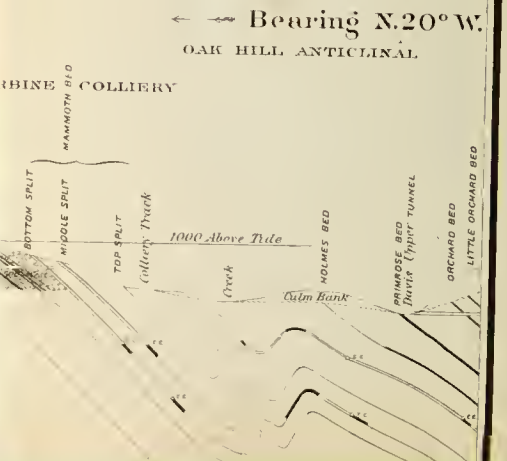
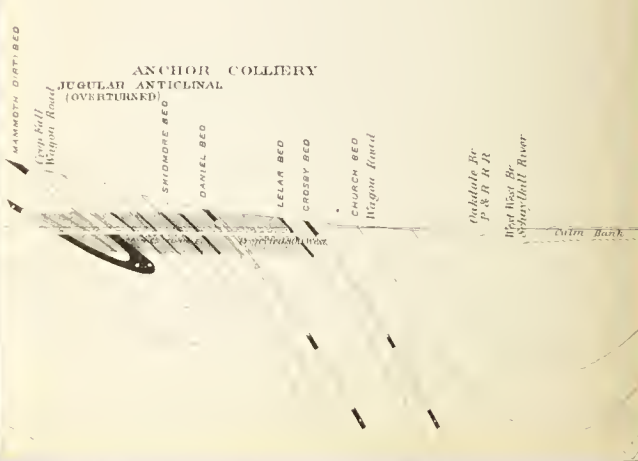
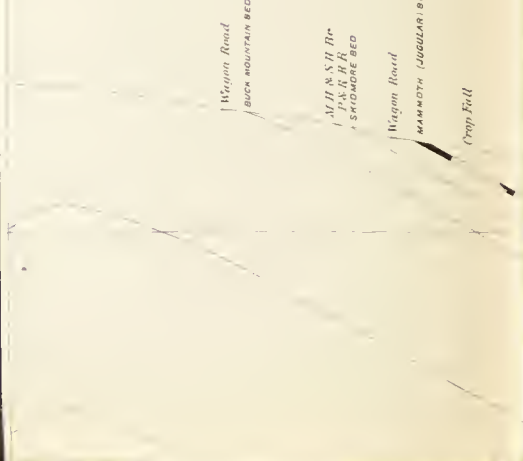
ERVILLE VALLEY, WOLF CREEK AND WEST BRANCH, THROUGH THE

ERVILLE VALLEY, WOLF CREEK AND WEST BRANCH, THROUGH THE

ERVILLE VALLEY, WOLF CREEK AND WEST BRANCH, THROUGH THE

ERVILLE VALLEY, WOLF CREEK AND WEST BRANCH, THROUGH THE

Bearing N. 20° W.



MOUNTAIN, HECKSCHERVILLE VALLEY, ROHRSVILLE, PHOENIX PARK AND

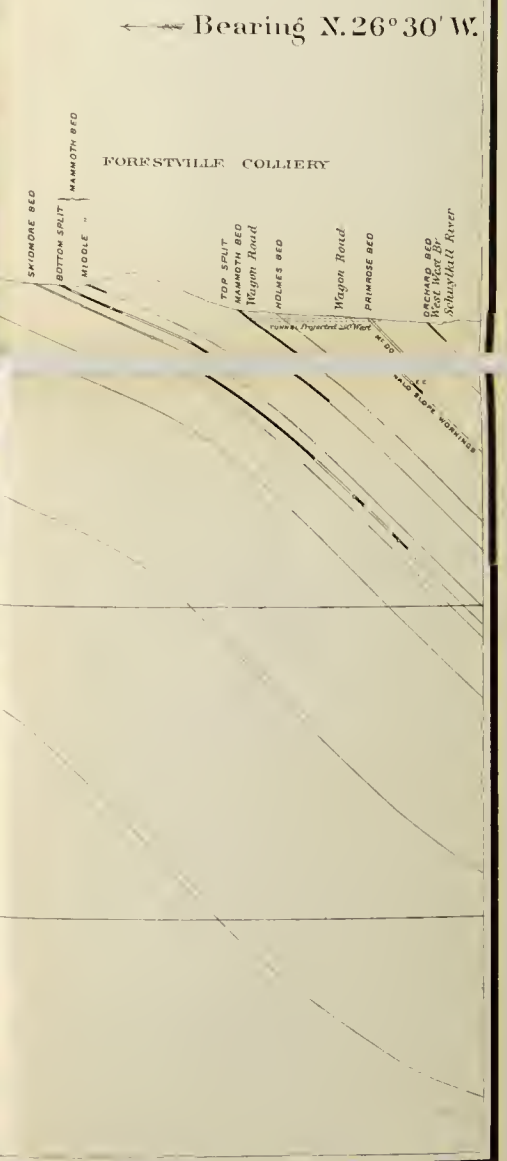
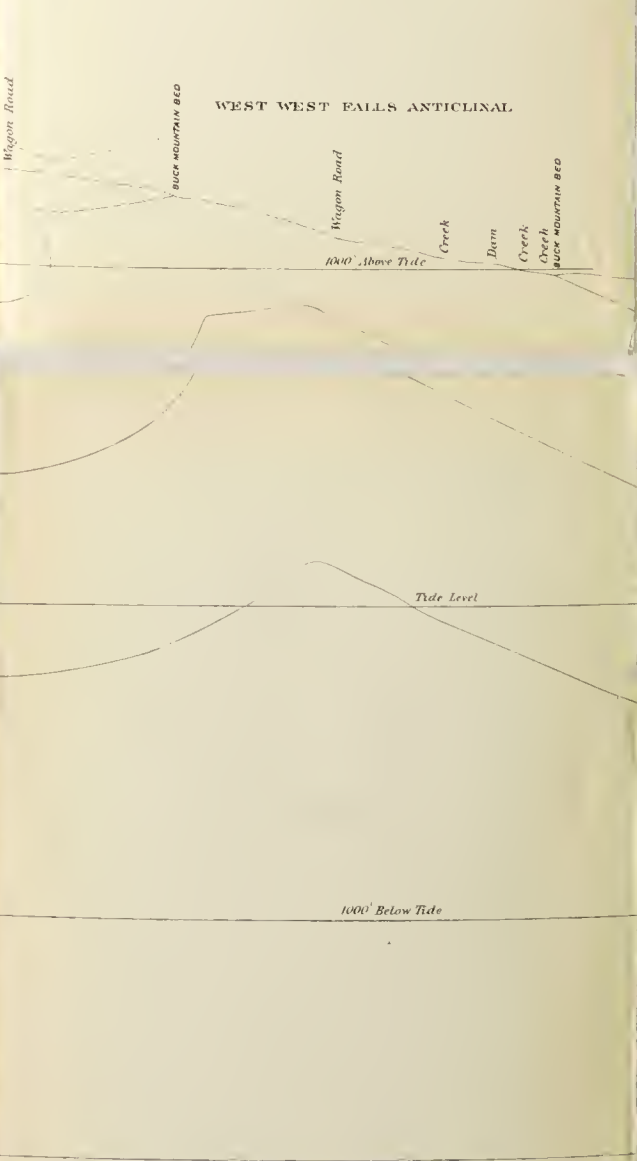
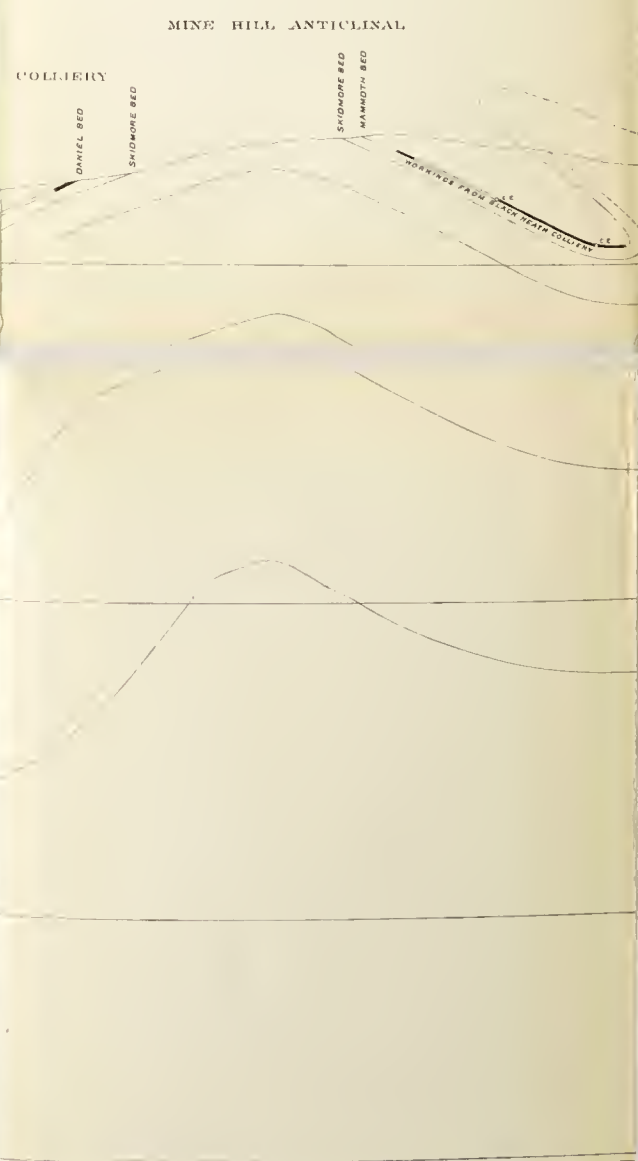
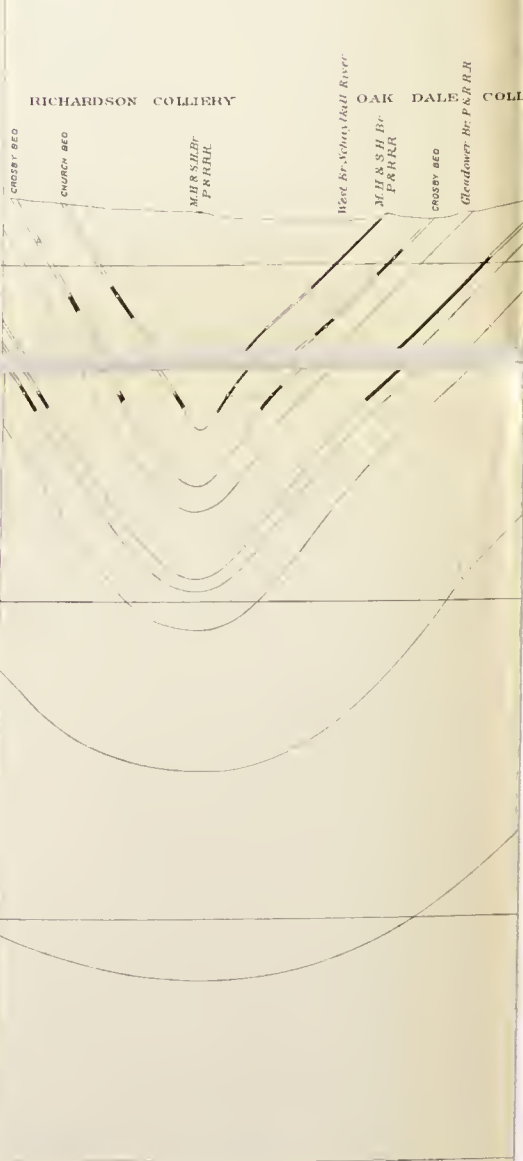
MOUNTAIN, HECKSCHERVILLE VALLEY, ROHRSVILLE, PHOENIX PARK AND

MOUNTAIN, HECKSCHERVILLE VALLEY, ROHRSVILLE, PHOENIX PARK AND

MOUNTAIN, HECKSCHERVILLE VALLEY, ROHRSVILLE, PHOENIX PARK AND

MOUNTAIN, HECKSCHERVILLE VALLEY, ROHRSVILLE, PHOENIX PARK AND

Bearing N. 26° 30' W.



DE MEYER STATE PRINTER

Scale: 100 Feet to 1 inch

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REFERENCE SURVEY MAPS AND SECTIONS
MINE SHEETS Nos VII-XV
ATLAS AA PART II
SOUTHERN COAL FIELD
COLUMBIAN SECTION SHEETS IV-IX
ATLAS AA PART IV

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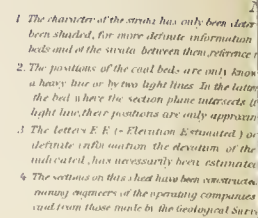
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SECTION No.15, ON MINE SHEETS Nos.V AND IX

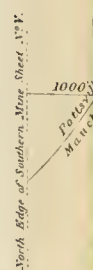


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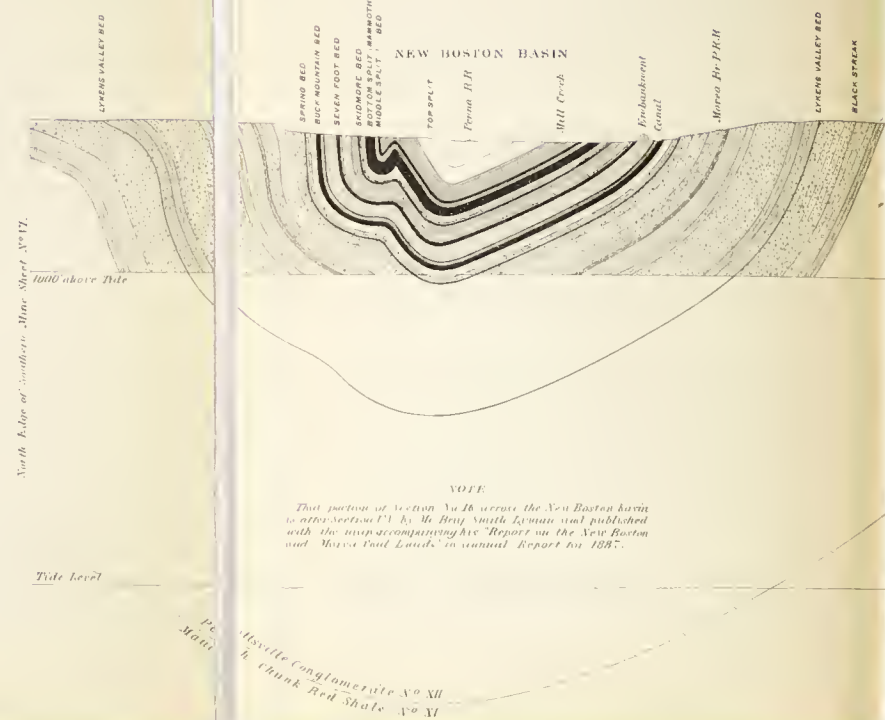
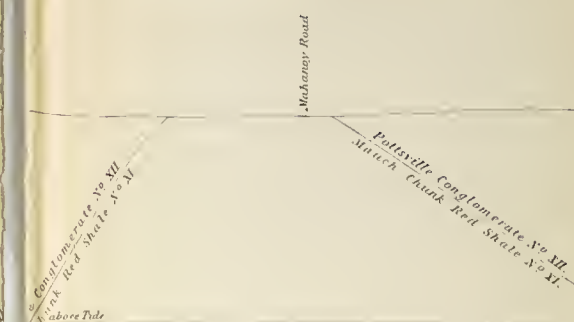
would be those localities where the sections have representing the thickness and character of the coal must be made in the columnar section sheets in such an order where they are indicated by the fact that has generally been worked out of the coal beds are represented by a single bold known

turning in a series, equities that for lack of a symmetrical, tilted, slope or shall at the point of

from the section and underground surveys of the point in the title of the individual sections



Tide Level

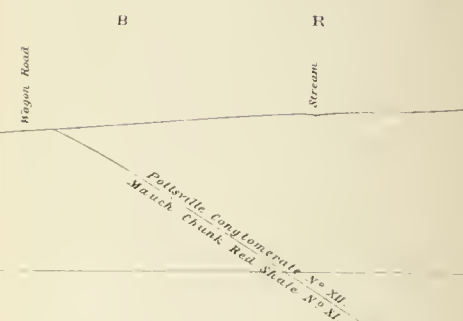


EISENHUTH RUN ANTICLINAL

Eisenhuth's Run Hum. P.W. Co.

Mauch Chunk Red Shale No. X

SECTION No. 16,
D

SECTION No. 17, ON NINE SHEETS Nos. VII, XI, XII AND XIV^A, ACROSS THE BASINS OF BROAD MOUNTAIN

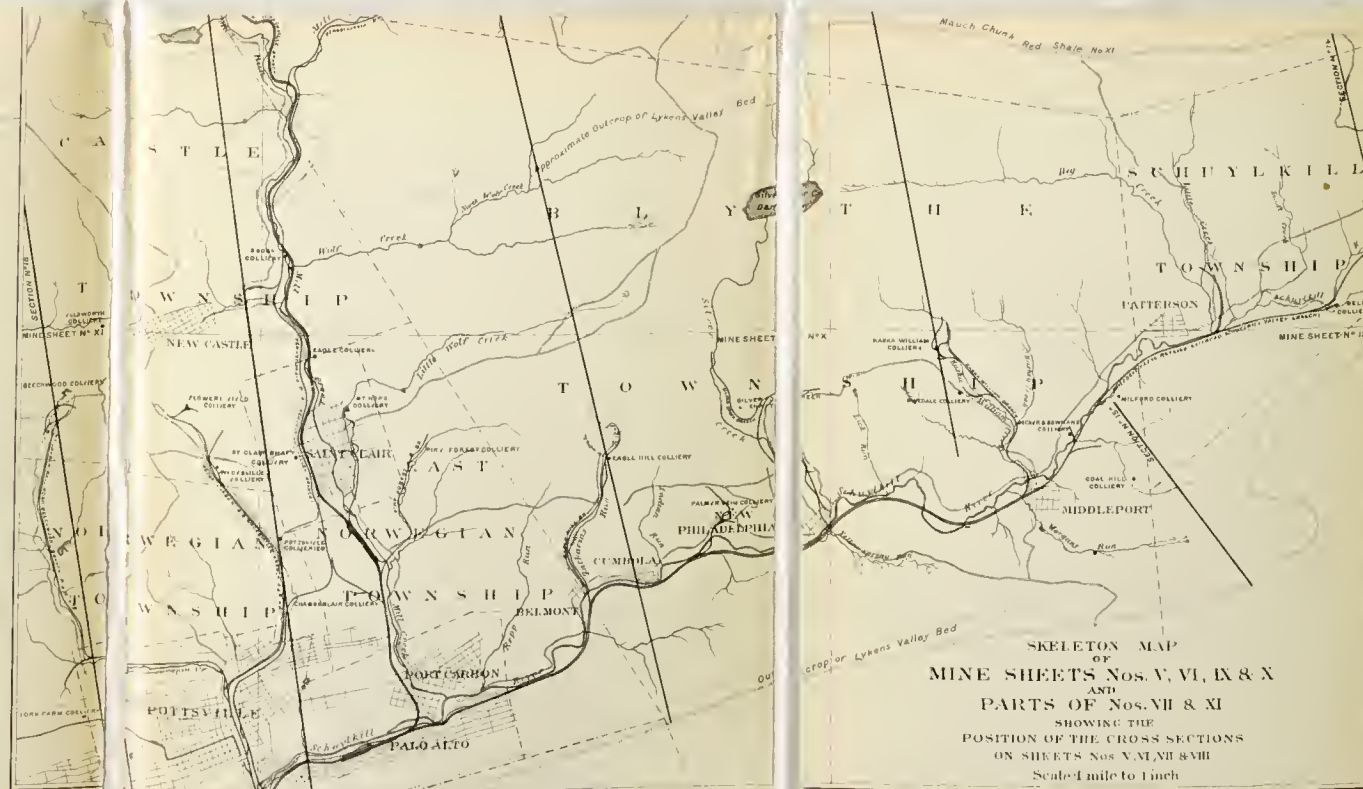
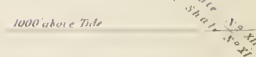
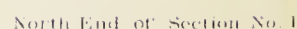
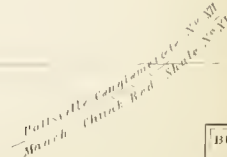
ALTAMONT COLIERY No.

EISENHUTH'S RUN ANTICLINAL

Mauch Chunk Red Shale N^o XI

B R O A

M O R



SKELETON MAP
 OF
 MINE SHEETS Nos. V, VI, IX & X
 AND
 PARTS OF Nos. VII & XI
 SHOWING THE
 POSITION OF THE CROSS SECTIONS
 ON SHEETS Nos. V, VI, VII & VIII
 Scale 4 mile to 1 inch

REFERENCE SURVEY MAPS AND SECTIONS	
SOUTHERN COAL FIELD	MINE SHEETS Nos. IV-XV.
	ATLAS AA PART II
	COLUMBIAN SECTION SHEETS IV-XI
	ATLAS AA PART IV.

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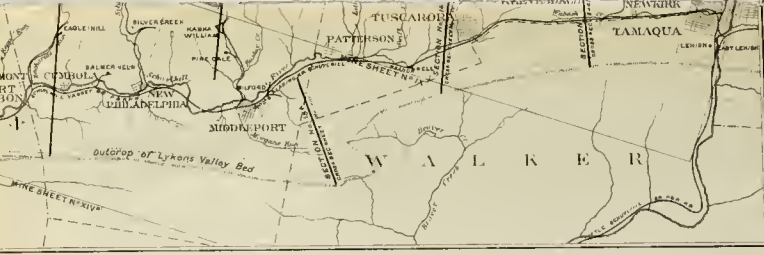
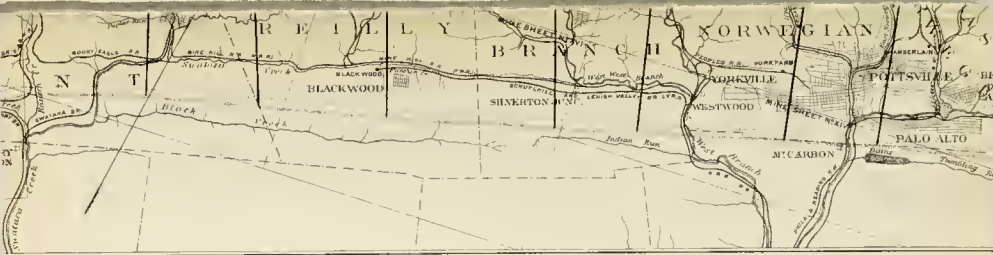
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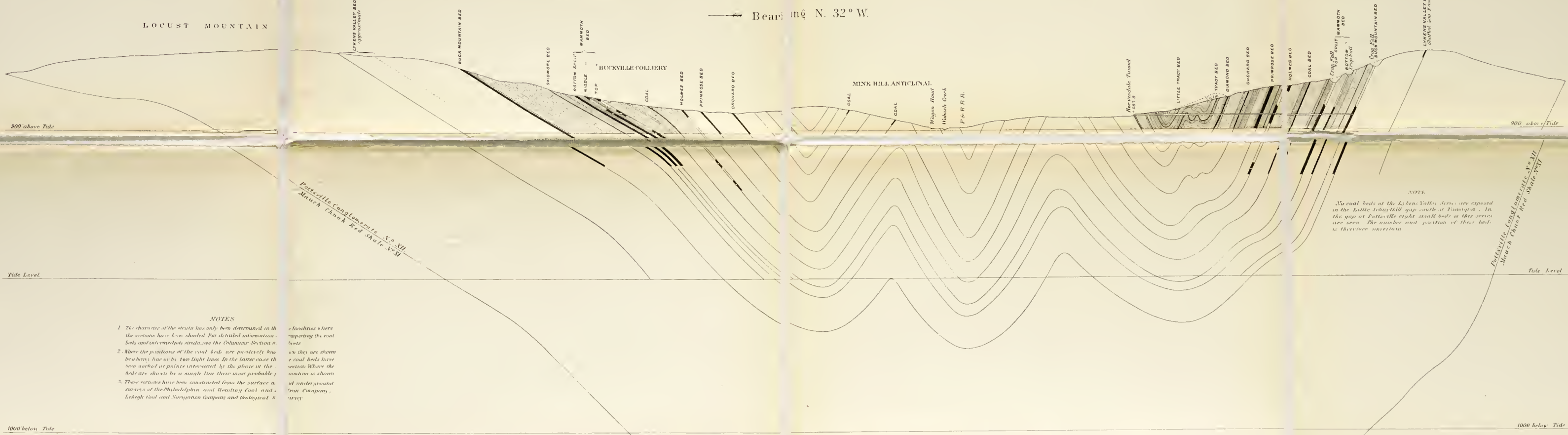
L. F. S.

SKELETON MAP
OF THE
SOUTHERN COAL FIELD
WEST OF TAMAQUA
SHOWING THE
POSITION OF THE CROSS SECTIONS.
Scale: 2 miles = 1 inch

For location of Section Lines Nos. 13 to 28 Scale: 800' = 1 inch
see mine sheets contained in Southern Coal Field Atlas Parts II and III.
For Cross Sections in the area east of Tamaqua
see Southern Coal Field Atlas Part I.

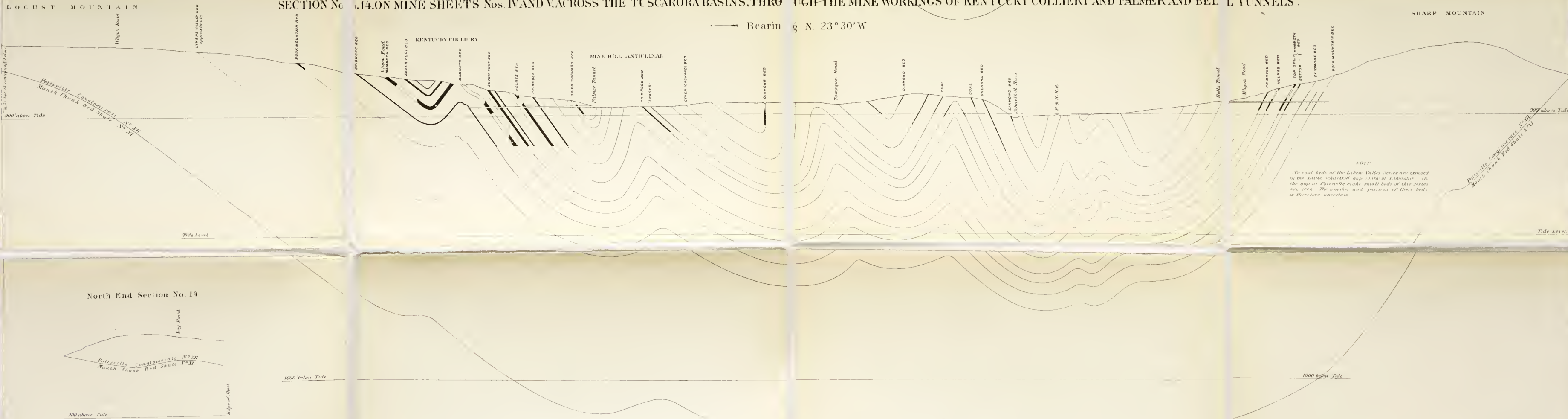


SECTION No. 13, ON MINE SHEET No. IV, ACROSS THE TAMAQUA BASINS, THROUGH THE MINE WORKINGS OF BUCKVILLE, NEWARK AND WABASH COLLIERIES AND REEVES DALE TUNNEL. SHARP MOUNTAIN



NOTES
1. The character of the strata has only been determined in the sections here shown. For detailed information, see the (Olanum) Section No. 13.
2. Where the position of the coal beds, see positively, has been ascertained, they are shown by a solid line. In the latter case, the position is shown by a dashed line. Where the position is shown by a dashed line, their position is shown by a dashed line.
3. These sections have been constructed from the surface and from the mine workings of the Philadelphia and Reading Coal and Iron Company, and from the mine workings of the Philadelphia and Reading Coal and Iron Company.

SECTION No. 14, ON MINE SHEETS Nos. IV AND V, ACROSS THE TUSCARORA BASINS, THROUGH THE MINE WORKINGS OF KENTUCKY COLLIERY AND PALMER AND BELL TUNNELS. SHARP MOUNTAIN



North End Section No. 14